

CLAIMS

What is claimed are:

1. A heater block having a catalyst spray means, comprising:

a support section;

an upper plate coupled to an upper portion of said support section and having a projection section at an edge of the upper plate; and

a heater installed at prominences and depressions of said upper plate and constructed so that a wafer can be located adjacent to an upper portion of said upper plate,

wherein catalyst supplied through passages formed within said support section and said upper plate is uniformly sprayed onto a surface of the wafer via a plurality of spray holes formed at said projection section.

2. The heater according to claim 1, wherein the number of said spray holes is between 16 and 128 and each of said spray holes is between 0.1 and 10 mm in diameter.

3. A heater block having a catalyst spray means, comprising:

a support section within which a first passage is formed;

an upper plate coupled to an upper portion of said support section, and including a plurality of second passages connected said first passage, a third passage having a projection section at an edge of said upper plate and also connected to said second passages within said projection section, and a plurality of spray holes for spraying a catalyst supplied into said third passage outward from said projection section; and

a heater installed at prominences and depressions of said upper plate formed of said projection section and constructed so that a wafer can be located adjacent to an upper portion of said upper plate,

wherein the catalyst, supplied from outside through said first to third passages, is uniformly sprayed onto a surface of the wafer via said spray holes.

4. The heater according to claim 3, wherein said second passages are arranged in a radial shape.

5. The heater according to claim 3, wherein the number of said spray holes is between 4 and 32 and each of said spray holes is between 1 and 20 mm in diameter.

6. The heater according to claim 3, wherein the number of said spray holes is between 16 and 128 and each of said spray holes is between 0.1 and 10 mm in diameter.

7. The heater according to claim 3, wherein said spray holes are formed at a spray angle of 0° to 60° downward.

8. The heater according to claim 1, wherein said first passage is connected to a catalyst supply tube including a mass flow controller for controlling a flow amount of the catalyst.